

INTRODUCTION

GEOCHEMICAL DATA

PALEONTOLOGIC DATA

ROCK UNITS

The stratigraphic nomenclature and depths are from Bird, chapter 15, this volume.

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GEOPHYSICAL WELL LOGS AND LITHOLOGY

The well log curves and lithologies are from the reports by Bird (1981 a, b, c, d, e; and 1982). The basic well logs are also available from NOAA as well as commercial well log distributors. The lithologic symbols are explained in D.

HYDROCARBON OCCURRENCES AND WELL SYMBOLS

Occurrences of oil or gas in a well are loosely referred to as "shows." These shows may be observed in the samples, in the drilling mud, or actually measured in a test. The criteria we employed in determining significant from insignificant hydrocarbon occurrences are shown in E. The basic observations or test results are reported on the mud log, the lithology log, and in the well history. These logs and histories are available from NOAA. A set of well symbols has been designed by Bird to show the status of the well and the nature of any hydrocarbon occurrences. These are utilized in the title block of each well in these displays and explained in E.

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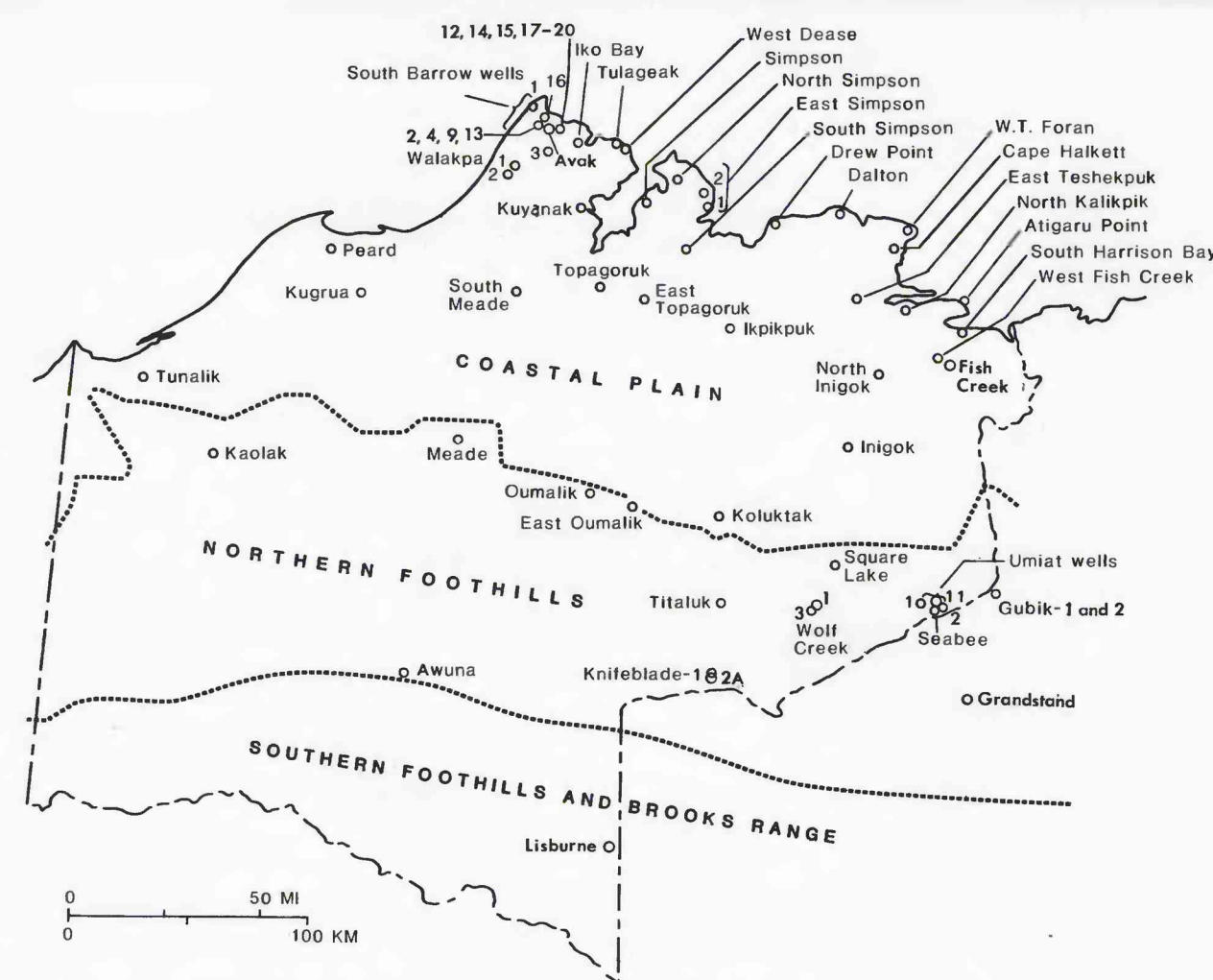
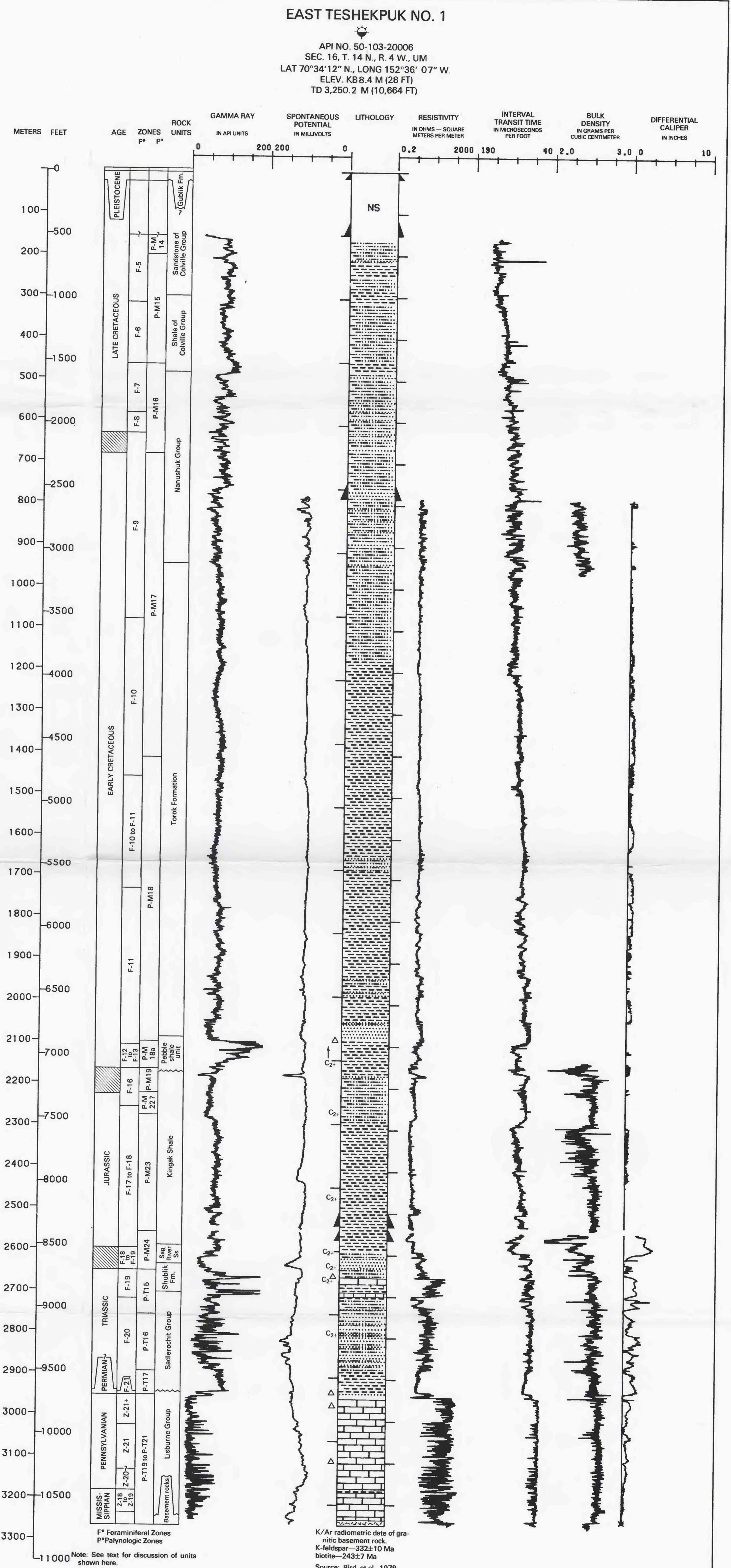
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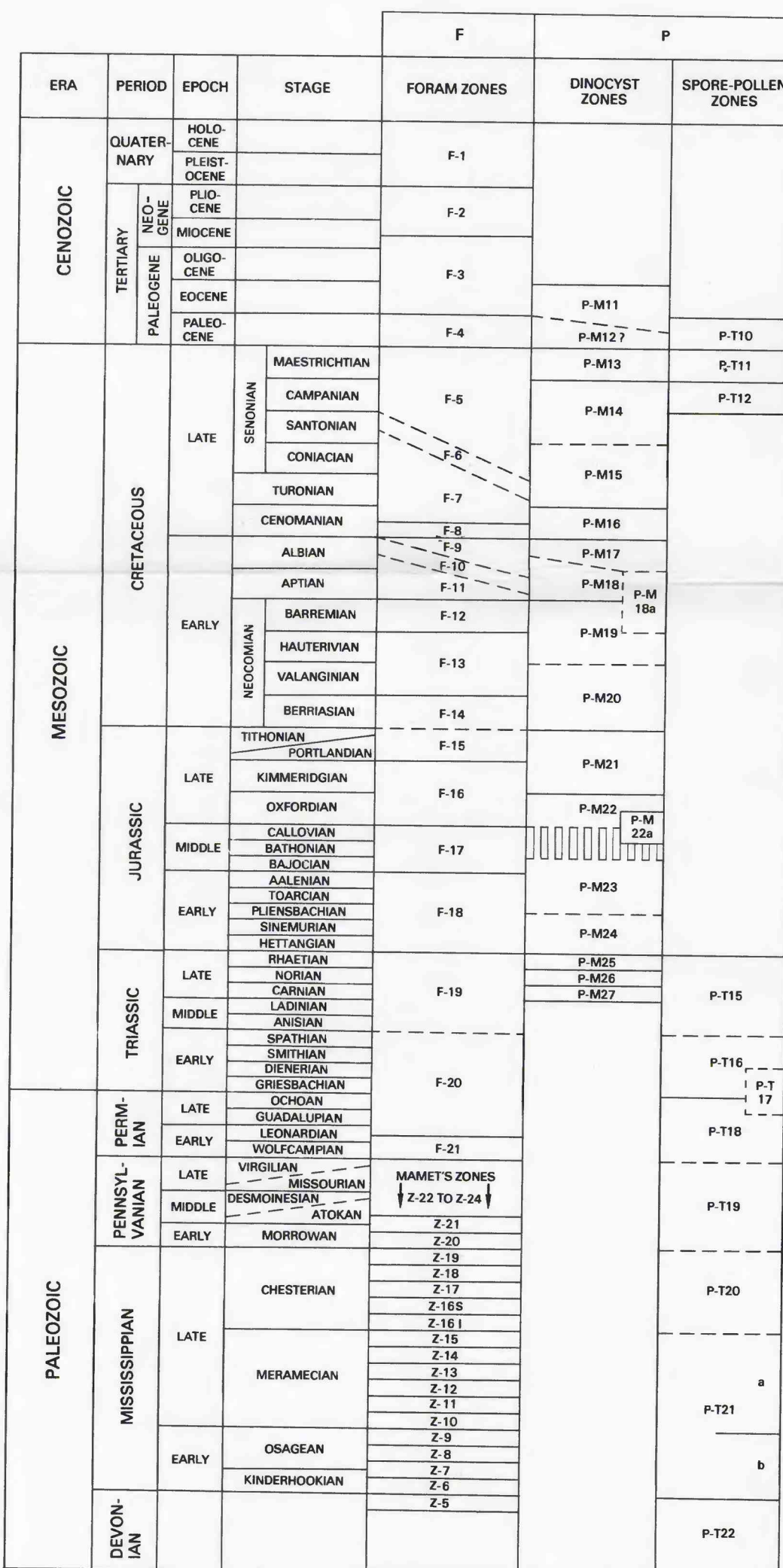
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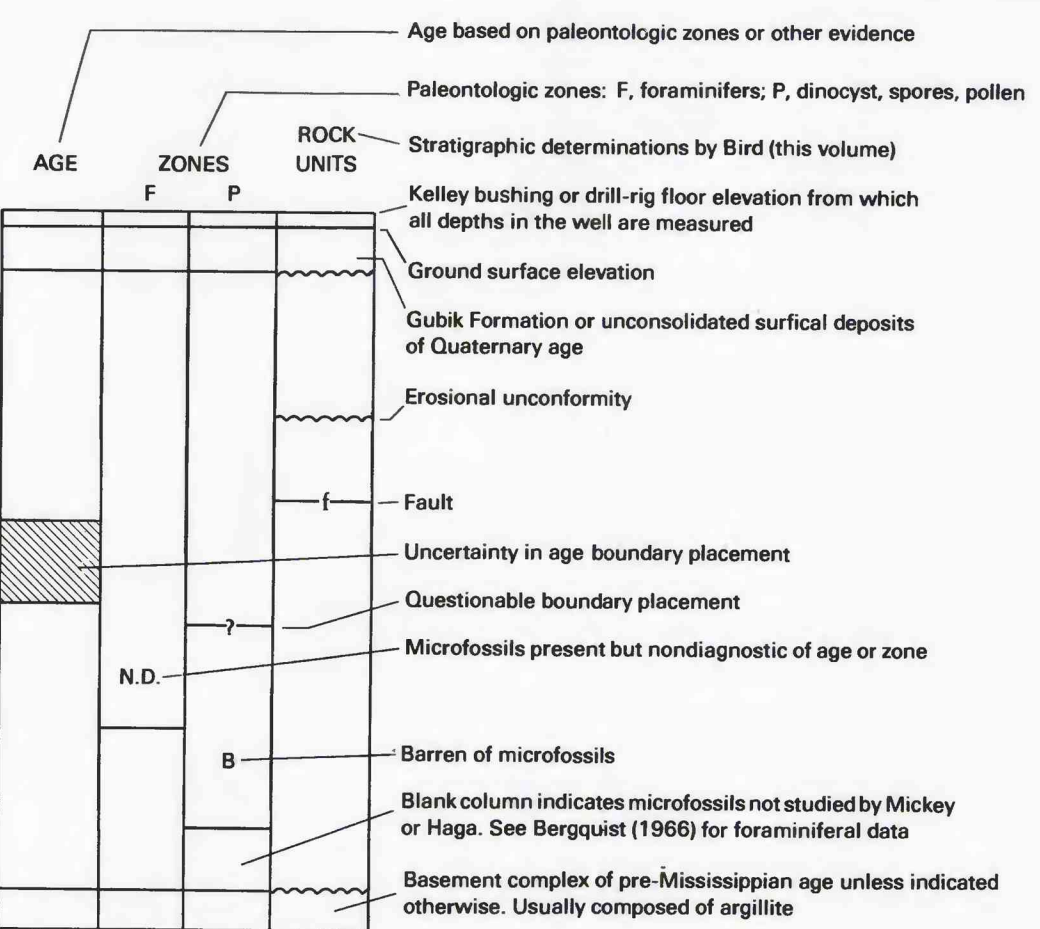
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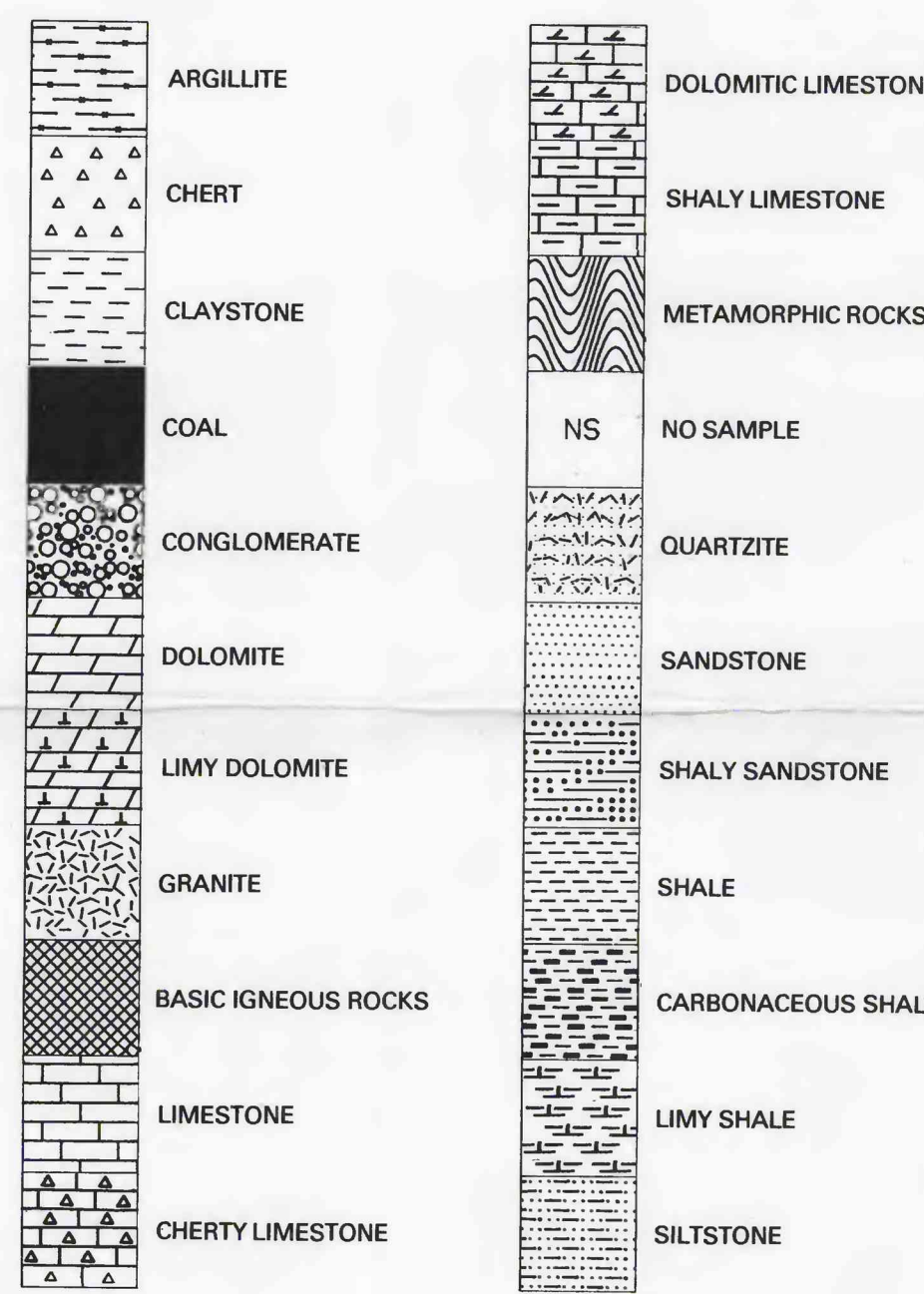
A. Location of wells drilled by U.S. government in or adjacent to NPRA from 1944 to 1981. Dotted lines show boundaries of provinces discussed by Claypool and Magoon, chapter 18, this volume.



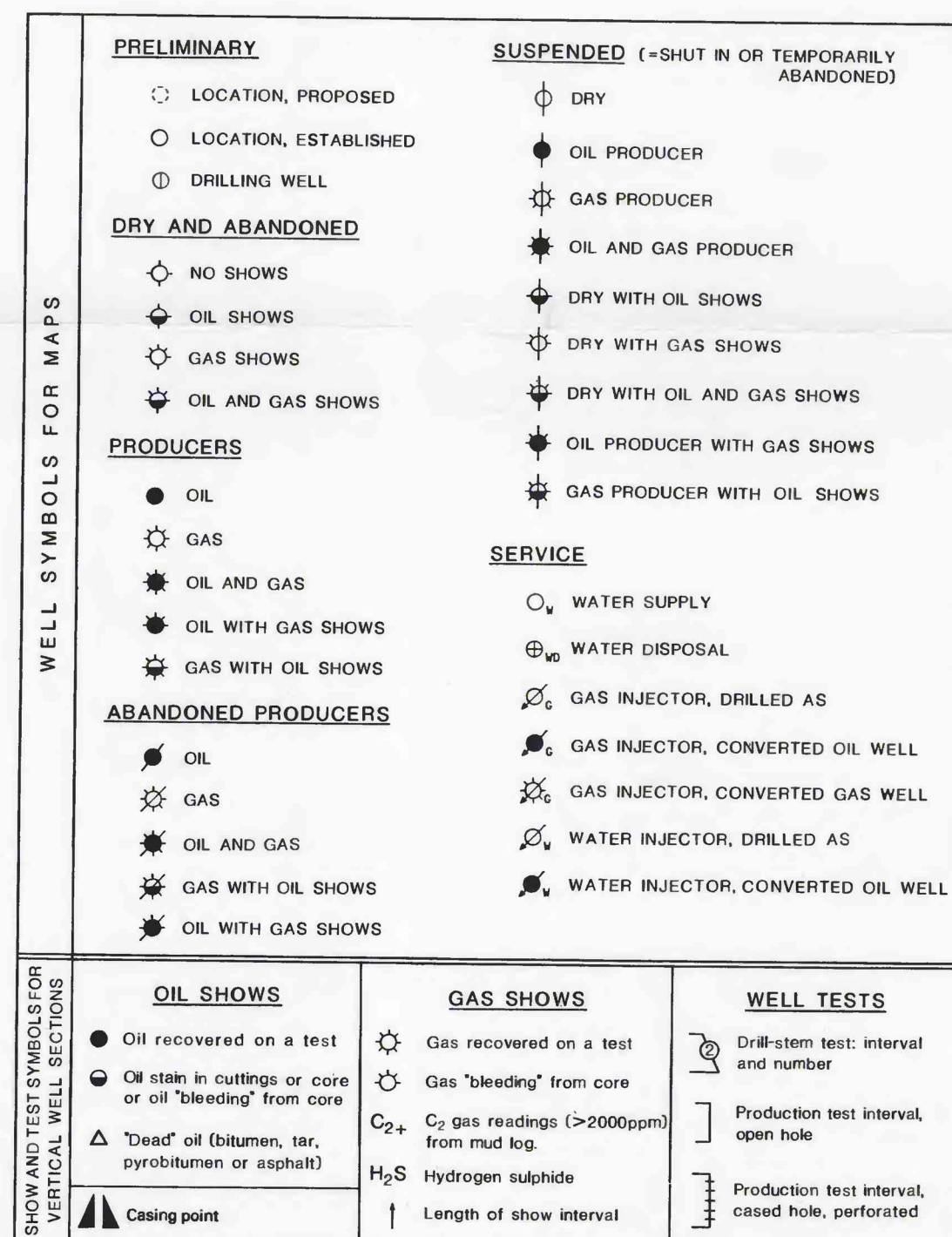
B. Relationship of geologic age to paleontologic zones (Adapted from Witmer and others, 1981).



C. Explanation of paleontologic and stratigraphic details.



D. Lithologic symbols.



E. Symbols used for wells on maps and displays and for hydrocarbon occurrences on well sections.